Microgravity Division (RU)

Conducts and collaborates in planning and advocacy of research to investigate the effects of the microgravity environment of space on physical, chemical and biological systems. The goal of this research is to develop a spectrum of innovative technologies that support and protect life during all phases of a mission and utilize available resources at their destination by conducting cutting-edge research using the International Space Station, other space platforms, NASA's unique ground-based low-gravity facilities and ground-based laboratories. The interdisciplinary research encompasses three broad disciplines namely: combustion science; fluid physics and transport phenomena; and bioscience and technology.

During the course of flight experiments, division members serve as Project Scientists and work closely with Principal Investigators providing in-house technical expertise regarding the scientific content of the experiment, conducting ground-based precursor testing, and assisting in the development of required experiment technologies and diagnostic techniques.